## Rec'd PCT/PTO

### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization

International Bureau



## T (CENTE ENGLED) IN COUNT CONTROL CONTROL FOR THE FIRST CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL

## (43) International Publication Date 12 February 2004 (12.02.2004)

#### **PCT**

# (10) International Publication Number WO 2004/013564 A1

(51) International Patent Classification7:

F42D 1/045

(21) International Application Number:

PCT/IB2003/002985

(22) International Filing Date:

28 July 2003 (28.07.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 02/09815

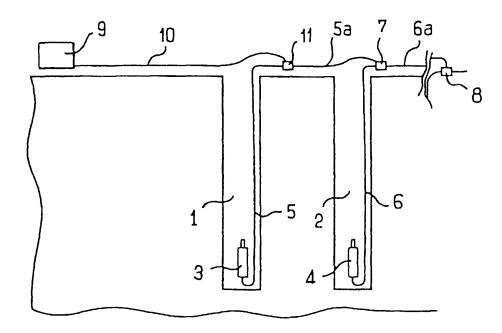
1 August 2002 (01.08.2002) F

- (71) Applicant (for all designated States except US): CHEM-ICAL HOLDINGS INT. LTD. [MU/MU]; 7th Floor Ken Lee Tower, cnr Barracks & St George Streets, Port Louis (MU).
- (71) Applicant (for IS only): GILSON, David, Grant [ZA/ZA]; Rochester Place, 173 Rivonia Road, 2057 Morningside (ZA).

- (72) Inventor; and
- (75) Inventor/Applicant (for US only): BERNARD, Thierry [FR/FR]; Le Château des Anges, B, 35 avenue Raymond Feraud, F-06200 Nice (FR).
- (74) Agent: DONALD-HEATER, June; Spoor & Fisher, P.O. Box 41312, 2024 Craighall (ZA).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

#### (54) Title: PYROTECHNICAL FIRING INSTALLATION



(57) Abstract: A pyrotechnical firing installation comprises a plurality of detonators (3, 4), each with an electric cable (5, 6) comprising at least two connection conductors, and a surface line to which is connected the cable of the detonator. The surface line is formed by sections. Every section comprises a terminal or end part (5a, 6a) of the electric cable (5, 6) coming from a detonator (3, 4) and an end connector (7, 8) to electrically connect this terminal part (5a, 6a) to the cable of the next detonator, at a point of the latter defining the origin of its terminal part.

